

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Eliyahu RECHT

Serial No.: 09/982,282

Filed: October 18, 2001

For: APPARATUS AND METHODS FOR  
NOISE SUPPRESSION IN  
COMMUNICATIONS SYSTEMS



) Art Unit: (N/A)

) Examiner: (N/A)

) Washington, D.C.

) December 11, 2001

) Docket No.: U 013679-6

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JAN 18 2002

Technology Center 2600

INFORMATION DISCLOSURE STATEMENT [IDS]

Honorable Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Sir:

This Information Disclosure Statement is submitted in accordance with 37 C.F.R. 1.97, 1.98, and it is requested that the information set forth in this statement and in the listed documents be considered during the pendency of the above-identified application, and any other application relying on the filing date of the above-identified application or cross-referencing it as a related application.

1. This IDS should be considered, in accordance with 37 C.F.R. 1.97, as it is filed:

(Check one of the boxes A-D)

A. within three months of the filing date of the above-identified national application or within three months of the entry into the national stage of the above-identified international application.

B. before the mailing date of a first office action on the merits.

C. after (A) and (B) above, but before final rejection or allowance, and Applicants have made the necessary certification (box "i" below) or paid the necessary fee (box "ii" below).

(check one of the boxes "i" and "ii" below:)

i. Counsel certifies that, upon information and belief, each item of information listed herein was either (a) cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS; or (b) was not cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of undersigned after making reasonable inquiry, was not known to any individual designated in 1.56(c) more than three months prior to the filing of this IDS.

ii. A check for the fee set forth in 1.17(p), presently believed to be \$240, is enclosed (check no. \_\_\_\_\_).

D. after (A), (B) and (C) above, but before payment of the issue fee: Applicant petitions under 37 C.F.R. 1.97(d) for the consideration of this IDS. A check for the fee set forth in §1.17(i), presently believed to be \$130 is enclosed (check no. \_\_\_\_\_). Counsel certifies that, upon information and belief, each item of information listed herein was either (i) cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the IDS; or (ii) was not cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the undersigned after making reasonable inquiry, was not known to any individual designated in 1.56(c) more than three months prior to the filing of this IDS.

2. In accordance with 37 C.F.R. 1.98, this IDS includes a list (e.g., form PTO-1449) of all patents, publications, or other information submitted for consideration by the office, either incorporated into this IDS or as an attachment hereto. A copy of each document listed is attached, except as explained below.

(check boxes A and/or B and fill in blanks, if appropriate.)

A. Document(s) \_\_\_\_\_ is (are) deemed substantially cumulative to document(s) \_\_\_\_\_, and, in accordance with 1.98(c), only a copy of each of the latter documents is enclosed.

B. Certain documents were previously cited by or submitted to the Office in the following prior application(s), which are relied upon under 35 U.S.C. 120:

[insert serial numbers and filing dates of prior applications]

Applicant identifies these documents by attaching hereto copies of the forms PTO-892 and PTO-1449 from the files of the prior application(s) or a fresh PTO-1449 listing these documents, and request that they be considered and made of record in accordance with 1.98(d). Per 37 CFR 1.98(d), copies of these documents need not be filed in this application.

3. Document(s) \_\_\_\_\_ is(are) not in the English language. In accordance with 1.98(c), Applicant states:

An English translation of each document (or of the pertinent portions thereof), or a copy of each corresponding English-language patent or application, or English-language abstract (or claim) is enclosed.

A concise explanation of the relevance of document(s) \_\_\_\_\_ is found in the attached search report (see reply to Comment 68 in the preamble to the final rules; 1135 OG 13 at 20):

A concise explanation of the relevance of document(s) \_\_\_\_\_ is set forth as follows:  
[Insert concise explanation of relevance]

A concise explanation of the relevance of document(s) \_\_\_\_\_ can be found on page(s) \_\_\_\_\_ of the specification.

A concise explanation of document(s) \_\_\_\_\_ can be found on the attached sheet.

4. No explanation of relevance is necessary for documents in the English language (see reply to Comments 67 and 68 in the preamble to the final rules; 1135 OG 13 at 20).

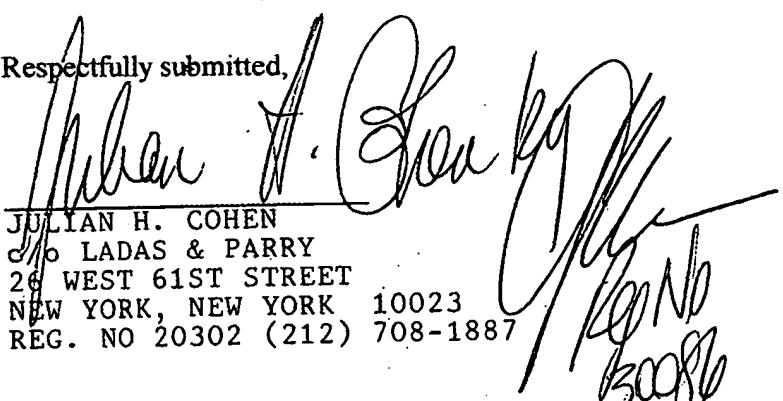
5. Other information being provided for the examiner's consideration follows:

6. In accordance with 37 C.F.R. 1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search has been made or that information cited is, or is considered to be, material to patentability as defined in §1.56 (b), or that any cited document listed or attached is (or constitutes) prior art. Unless otherwise indicated, the date of publication indicated for an item is taken from the face of the item and Applicant reserves the right to prove that the date of publication is in fact different.

**CROSS REFERENCE UNDER 37 C.F.R. §1.78 TO RELATED APPLICATIONS**

Pursuant to 37 C.F.R. § 1.78, Applicant notes that the above-identified patent application may be related to the following U.S. Patent Applications:

Respectfully submitted,

  
JULIAN H. COHEN  
c/o LADAS & PARRY  
26 WEST 61ST STREET  
NEW YORK, NEW YORK 10023  
REG. NO 20302 (212) 708-1887  
30086

FORM PTO-1449 (Colb)	ATTY DOCKET NO. U 013679-6	SERIAL NUMBER 09/982,282
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANTS' INFORMATION STATEMENT	APPLICANT Eliyahu RECHT	
O P T E JAN 1 4 2002 P A T E N T S M A R K P A T E N T S 3 1 5 7	FILING DATE October 18, 2001	GROUP ART UNIT (N/A)

## U.S. PATENT DOCUMENTS

Examiner Initials	AA	DOCUMENT NO.	DATE	NAME	CLASS	SUB	FILING DATE
MD	AA	6,241,920	Jun. 2001	Cotter, et al.	264	1.24	
	AB	6,239,379	May 2001	Cotter, et al.	174	110	
	AC	6,183,657 B1	Feb. 2001	Saito, et al.	252	62.53	
	AD	6,091,025	Jul. 2000	Cotter, et al.	174	110	
	AE	6,089,917	Jul. 2000	Anderson, et al.	439	620	
	AF	6,069,803	May 2000	Cross	363	21	
	AG	6,014,071	Jan. 2000	Onishi, et al.	336	170	
	AH	6,004,661	Dec. 1999	Sakai, et al.	428	216	
	AI	6,002,593	Dec. 1999	Tohya, et al.	361	765	
▼	AJ	5,994,992	Nov. 1999	Yamada, et al.	336	212	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB	TRANSLATION
	AK						
	AL						

## OTHER ART (Including Author, Bills, Pertinent Pages, Etc.)

AM	
EXAMINER: <i>Melinda D. Bao</i>	DATE CONSIDERED: 06/04/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Colb)		ATTY DOCKET NO. U 013679-6	SERIAL NUMBER 09/982,282
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANTS' INFORMATION STATEMENT		APPLICANT Eliyahu RECHT	
O I P E JAN 16 2002 P A T E N T E D D E M A R K R E C E I V E D		FILING DATE October 18, 2001	GROUP ART UNIT (N/A)

## U.S. PATENT DOCUMENTS

Examiner's Initials		DOCUMENT NO.	DATE	NAME	CLASS	Technology Center SUB	FILING DATE
MM	AA	5,990,417	Nov. 1999	Senda, et al.	174	35	RECEIVED JAN 18 2002
	AB	5,978,231	Nov. 1999	Tohya, et al.	361	782	
	AC	5,977,853	Nov. 1999	Ooi, et al.	336	650	
	AD	5,977,754	Nov. 1999	Cross	323	222	
	AE	5,966,064	Oct. 1999	Yoshizawa, et al.	336	221	
	AF	5,850,336	Dec. 1998	Nakajima, et al.	363	39	
	AG	5,841,335	Nov. 1998	Onishi, et al.	336	170	
	AH	5,831,505	Nov. 1998	Yamaguchi, et al.	336	83	
	AI	5,825,272	Oct. 1998	Yamada, et al.	336	212	
Y	AJ	5,793,273	Aug. 1998	Yamaguchi, et al.	336	198	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB	TRANSLATION
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## OTHER ART (Including Author, Bills, Pertinent Pages, Etc.)

	AM	
EXAMINER:	<i>Mark T. Kee</i>	DATE CONSIDERED: <i>06/08/05</i>

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Colb)	ATTY DOCKET NO. U 013679-6	SERIAL NUMBER 09/982,282
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANTS' INFORMATION STATEMENT  O P E S C 157 JAN 16 2002 PATENT & TRADEMARK OFFICE	APPLICANT Eliyahu RECHT	
	FILING DATE October 18, 2001	GROUP ART UNIT (N/A)

## U.S. PATENT DOCUMENTS

Examiner's Initials		DOCUMENT NO.	DATE	NAME	CLASS	SUB	FILING DATE
MM	AA	5,635,890	Jun. 1997	Yamaguchi, et al.	336	83	
	AB	5,629,661	May 1997	Ooi, et al.	336	198	
	AC	5,619,174	Apr. 1997	Kimura, et al.	333	181	
	AD	5,611,871	Mar. 1997	Yoshizawa, et al.	148	108	JAN 18 2002
	AE	5,581,224	Dec. 1996	Yamaguchi	336	212	RECEIVED
	AF	5,522,948	Jun. 1996	Sawa, et al.	148	308	TECHNOL
	AG	5,506,559	Apr. 1996	Yamaguchi	336	83	00
	AH	5,252,148	Oct. 1993	Shigeta, et al.	148	307	
	AI	5,242,760	Sep. 1993	Matsuoka, et al.	428	692	
↓	AJ	5,225,006	Jul. 1993	Sawa, et al.	148	304	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB	TRANSLATION
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## OTHER ART (Including Author, Bills, Pertinent Pages, Etc.)

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DATE CONSIDERED: 06/08/05	
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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANTS' INFORMATION STATEMENT		APPLICANT Eliyahu RECHT	
JAN 14 2002 PATENT & TRADEMARK OFFICE U.S. GOVERNMENT		FILING DATE October 18, 2001	GROUP ART UNIT (N/A)

## U.S. PATENT DOCUMENTS

Examiner's Initials		DOCUMENT NO.	DATE	NAME	CLASS	SUB	FILING DATE
MM	AA	5,192,375	Mar. 1993	Sawa, et al.	148	306	
	AB	5,178,689	Jan. 1993	Okamura, et al.	148	306	
	AC	5,067,991	Nov. 1991	Sawa, et al.	148	305	
	AD	5,030,933	Jul. 1991	Ikeda	333	184	
	AE	5,019,190	May 1991	Sawa, et al.	148	306	
	AF	5,012,125	Apr. 1991	Conway	307	149	
	AG	4,985,088	Jan. 1991	Okamura, et al.	148	305	
	AH	4,870,729	Oct. 1989	Ikeda	29	25.42	
	AI	4,859,256	Aug. 1989	Sawa, et al.	148	304	
Y	AJ	4,847,575	Jul. 1989	Ikeda	333	184	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB	TRANSLATION
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## OTHER ART (Including Author, Bills, Pertinent Pages, Etc.)

AM			
EXAMINER:	<i>Mars D. Deo</i>	DATE CONSIDERED:	<i>06/04/05</i>
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<i>O I P E</i> JAN 14 2002 PATENT & TRADEMARK OFFICE	FILING DATE October 18, 2001	GROUP ART UNIT (N/A)

## U.S. PATENT DOCUMENTS

Examiner's Initials		DOCUMENT NO.	DATE	NAME	CLASS	SUB	FILING DATE	RECEIVED
<i>JW</i>	AA	4,741,484	May 1988	Curtis, Jr. et al.	242	703		
	AB	4,637,843	Jan. 1987	Takayama, et al.	420	73		
	AC	4,472,693	Sep. 1984	Uemura, et al.	333	167		
	AD	4,325,733	Apr. 1982	Aboaf, et al.	75	170		
	AE	6,222,416	Apr. 2001	Edeler	330	255		
	AF	4,779,812	Oct. 1988	Fisher, et al.	242	7.07		
	AG	5,804,282	Sep. 1998	Watanabe, et al.	428	141		
	AH	4,897,561	Jan. 1990	Saigo, et al.	307	413		
	AI	6,167,013	Dec. 2000	Ando, et al.	369	54		
<i>T</i>	AJ	6,160,448	Dec. 2000	Werrbach	330	124		

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB	TRANSLATION
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## OTHER ART (Including Author, Bills, Pertinent Pages, Etc.)

AM			
EXAMINER: <i>John D. Recht</i>	DATE CONSIDERED: 06/08/05		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

FORM PTO-1449 (Colb)		ATTY DOCKET NO. U 013679-6	SERIAL NUMBER 09/982,282
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANTS' INFORMATION O/A STATEMENT		APPLICANT Eliyahu RECHT	
		FILING DATE October 18, 2001	GROUP ART UNIT (N/A)

## U. S. PATENT DOCUMENTS

Examiner's Initials		DOCUMENT NO.	DATE	NAME	CLASS	SUB	FILING DATE
YMLD	AA	6,148,021	Nov. 2000	Moore III	375	141	
	AB	6,142,942	Nov. 2000	Clark	600	443	
	AC	6,141,391	Oct. 2000	Morelos-Zaragoza et al.	375	341	
	AD	6,125,151	Sep. 2000	Chiba	375	326	
	AE	6,122,405	Sep. 2000	Khani	382	261	
	AF	6,098,038	Aug. 2000	Hermansky, et al.	704	226	
	AG	6,088,387	Jul. 2000	Gelblum, et al.	375	222	
	AH	6,084,883	Jul. 2000	Norrell, et al.	370	420	
	AI	6,081,232	Jun. 2000	Pittman, et al.	342	368	
↓	AJ	6,078,190	Jun. 2000	Weber, et al.	326	36	

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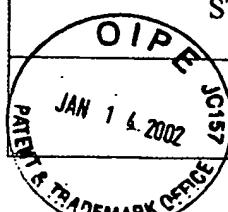
## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB	TRANSLATION
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## OTHER ART (Including Author, Bills, Pertinent Pages, Etc.)

AM	
EXAMINER: <i>hns N. Da</i>	DATE CONSIDERED: <i>08/08/02</i>

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Colb)		ATTY DOCKET NO. U 013679-6	SERIAL NUMBER 09/982,282
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANTS' INFORMATION STATEMENT		APPLICANT Eliyahu RECHT	
		FILING DATE October 18, 2001	GROUP ART UNIT (N/A)

## U.S. PATENT DOCUMENTS

Examiner's Initials		DOCUMENT NO.	DATE	NAME	CLASS	SUB	FILING DATE
ku/m	AA	6,075,821	Jun. 2000	Kao, et al.	375	260	
	AB	6,072,825	Jun. 2000	Betts, et al.	375	222	
	AC	6,052,566	Apr. 2000	Abramsky, et al.	379	410	
	AD	6,049,607	Apr. 2000	Marash, et al.	455	67.1	
	AE	6,047,170	Apr. 2000	Paulsen, et al.	455	212	
	AF	6,047,168	Apr. 2000	Carlsson, et al.	455	126	
	AG	6,043,658	Mar. 2000	Leussler	324	318	
	AH	6,032,114	Feb. 2000	Chan	704	226	
▲	AI	6,020,782	Feb. 2000	Albert, et al.	327	552	
	AJ						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB	TRANSLATION
	AK						
	AL						

## OTHER ART (Including Author, Bills, Pertinent Pages, Etc.)

AM			
EXAMINER: <i>Mary B. Doe</i>	DATE CONSIDERED: <i>06/03/00</i>		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			